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OM nucleic - nucleic search, using sw model

Run on: December 4, 2002, 03:33:36 ; Search time 230 seconds  
(without alignments)  
4677.497 Million cell updates/sec

Title: US-09-784-340-1

Perfect score: 2759

Sequence: 1 caaccattgcagatcagctgtc.....ctgtcagccgttactgacg 2759

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 350425 seqs, 194966369 residues

Total number of hits satisfying chosen parameters: 700850

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications -NA: \*  
1: /cgn2\_6/ptodata/1/pubpna/US07\_PUBCOMB.seq: \*  
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3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq: \*  
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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2331.4	84.5	2966	9 US-09-981-353-33	Sequence 33, Appl
2	2330	84.5	2974	12 US-10-053-586-521	Sequence 521, App
3	2309.6	83.7	3006	9 US-09-962-678-1	Sequence 1, Appl
4	1636	59.3	1636	9 US-09-981-353-165	Sequence 165, App
5	1582.4	57.4	1584	9 US-09-962-678-3	Sequence 3, Appl
6	810.4	29.4	1889	9 US-09-981-353-83	Sequence 83, Appl
7	782	28.3	2090	10 US-09-880-107-3292	Sequence 3292, Ap
8	766.2	27.8	2123	10 US-09-880-107-3286	Sequence 3286, Ap
9	758	27.5	2093	10 US-09-880-107-3842	Sequence 3842, Ap
10	754.8	27.4	1855	10 US-09-880-107-2120	Sequence 2120, Ap
11	753.2	27.3	1714	9 US-09-981-353-193	Sequence 193, App
12	750.4	27.2	2150	9 US-09-981-353-45	Sequence 45, Appl
13	743.8	27.0	1712	9 US-09-981-353-189	Sequence 189, App
14	732.6	26.6	2799	10 US-09-880-107-3756	Sequence 3756, Ap
15	693.4	25.1	1961	10 US-09-917-800A-1403	Sequence 1403, Ap
16	332.2	12.0	2380	12 US-10-044-090-816	Sequence 816, App
17	332.2	12.0	2385	9 US-09-981-353-153	Sequence 153, App
18	329	11.9	2422	10 US-09-880-107-2106	Sequence 2106, Ap
19	322.4	11.7	2320	10 US-09-835-082-1	Sequence 1, Appl

20	322.4	11.7	2320	10 US-09-835-082-3	Sequence 3, Appl
21	321.4	11.6	2349	9 US-09-981-353-151	Sequence 151, App
22	321.4	11.6	2349	12 US-10-044-090-845	Sequence 845, App
23	287.6	10.4	418	10 US-09-960-352-10064	Sequence 10064, A
24	272.2	9.9	735	10 US-09-305-856B-17	Sequence 17, Appl
25	269.2	9.8	426	10 US-09-960-352-13860	Sequence 13860, A
26	255.8	9.3	419	10 US-09-960-352-9640	Sequence 9640, Ap
27	248	9.0	2448	10 US-09-967-768A-187	Sequence 187, App
28	247	9.0	378	10 US-09-960-352-1300	Sequence 1300, Ap
29	217.6	7.9	582	10 US-09-867-701-1453	Sequence 1453, Ap
30	217.2	7.9	345	10 US-09-960-352-8015	Sequence 8015, Ap
31	213	7.7	370	10 US-09-960-352-12305	Sequence 3236, Ap
32	213	7.7	417	10 US-09-960-352-11024	Sequence 11024, A
33	207.2	7.5	413	10 US-09-960-352-3208	Sequence 3208, Ap
34	206.8	7.5	416	10 US-09-960-352-12236	Sequence 12236, A
35	202.2	7.3	588	10 US-09-833-381-344	Sequence 344, App
36	202	7.3	537	10 US-09-864-761-8424	Sequence 8424, Ap
37	199.4	7.2	537	10 US-09-864-761-14855	Sequence 14855, A
38	199	7.2	624	9 US-09-981-353-190	Sequence 190, App
39	196.2	7.1	381	10 US-09-960-352-2070	Sequence 2070, Ap
40	191.2	6.9	601	10 US-09-917-800A-1433	Sequence 1433, Ap
41	191.2	6.9	603	10 US-09-917-800A-1434	Sequence 1434, Ap
42	186.6	6.8	383	10 US-09-960-352-1313	Sequence 1313, Ap
43	184.2	6.7	350	10 US-09-960-352-2069	Sequence 2069, Ap
44	175	6.3	224	10 US-09-864-761-31383	Sequence 31383, A
45	174.6	6.3	334	9 US-09-981-353-149	Sequence 149, App

#### ALIGNMENTS

RESULT 1  
US-09-981-353-33  
; Sequence 33, Application US/09981353  
; Patent No. US20020160382A1  
; GENERAL INFORMATION:  
; APPLICANT: Lasek, Amy W.  
; APPLICANT: Jones, David A.  
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
; FILE REFERENCE: PA-0038 US  
; CURRENT APPLICATION NUMBER: US/09/981,353  
; CURRENT FILING DATE: 2001-10-11  
; NUMBER OF SEQ ID NOS: 194  
; SOFTWARE: PERL Program  
; SEQ ID NO 33  
; LENGTH: 2966  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: misc.feature  
; OTHER INFORMATION: Incyte ID No. US20020160382A1 997080.1  
US-09-981-353-33

Query Match 84.5%: Score 2331.4; DB 9; Length 2966;

Best Local Similarity 96.2%: Pred. No. 0; Mismatches 86; Indels 10; Gaps 5;

Matches 2443; Conservative	0;	Mismatches	86;	Indels	10;	Gaps	5;
QY	9	GCAGATCACTGTGTGAGGAGCACTGCATCATGAGTGTGACAACTGAGCTTGTGATTTTC	68				
DB	1	GCAGATCACTGTGTGAGGAGCACTGCATCATGAGTGTGACAACTGAGCTTGTGATTTTC	60				
QY	69	TGCTCTGAGAGCTTCTCTGTGTGATTTCTGTGGAAAGCTCTGTGTGAGCTTCT	128				
DB	61	TGCTCTGAGAGCTTCTCTGTGTGATTTCTGTGGAAAGCTCTGTGTGAGCTTCT	120				
QY	129	GTGACATGAGCCATTGCGTTAATGTCAGAGTCATTGTAGAGAGCTCATGAGAGGCC	188				
DB	121	GTGACATGAGCCATTGCGTTAATGTCAGAGTCATTGTAGAGAGCTCATGAGAGGCC	180				
QY	189	ATGAGGTAACAGTATGACTCACTCAAAAGCTTCGTTAATGACTACAGAGAGCCCTTTC	248				
DB	181	ATGAGGTAACAGTATGACTCACTCAAAAGCTTCGTTAATGACTACAGAGAGCCCTTTC	240				

Qy	249	CATTGAATTTGAGSTGTCCATATGCCACAGACAGACAGAAAGAAATGAAATATTTC	308
Db	241	CATTGAATTTGAGSTGTCCATATGCCACAGACAGACAGAAAGAAATGAAATATTTC	300
Qy	309	TTGACCTAGCTCTGAATGCTCTGGCAGGCTTATCACTGGCAATCGTTATAAATTTAA	368
Db	301	TTGACCTAGCTCTGAATGCTCTGGCAGGCTTATCACTGGCAATCGTTATAAATTTAA	360
Qy	369	ATGATTTTGTGTAATAAGAGAACTTTAAAAATGATGTGAGAGCTTTATCTACA	428
Db	361	ATGATTTTGTGTAATAAGAGAACTTTAAAAATGATGTGAGAGCTTTATCTACA	420
Qy	429	ATCAGACGCTTATGAGAGAGCTACAGGAAACCACTACGATGTATGTTATGACCCCTG	488
Db	421	ATCAGACGCTTATGAGAGAGCTACAGGAAACCACTACGATGTATGTTATGACCCCTG	480
Qy	489	TGATTCCTGTGAGACCTGATGGCTGATGCTTGCAGTCCCTTTGTGCTCACTTA	548
Db	481	TGATTCCTGTGAGACCTGATGGCTGATGCTTGCAGTCCCTTTGTGCTCACTTA	540
Qy	549	GAATTTCTGTAGAGAGCAATATGAGAGCACTGTGGGAAACTTCACCTCACCTTCT	608
Db	541	GAATTTCTGTAGAGAGCAATATGAGAGCACTGTGGGAAACTTCACCTCACCTTCT	600
Qy	609	ATGTACCTGTGCTATGACAGAGACTACAGACAGAAATGACCTTCTGGAAGAGTAAAAA	668
Db	601	ATGTACCTGTGCTATGACAGAGACTACAGACAGAAATGACCTTCTGGAAGAGTAAAAA	660
Qy	669	ATTTCAATGCTTTCACTTTTGTTCACCTTCGTGATTCAGAGTATACAGATATCAATTTTGG	728
Db	661	ATTTCAATGCTTTCACTTTTGTTCACCTTCGTGATTCAGAGTATACAGATATCAATTTTGG	720
Qy	729	AAGAGTTTATATGTAAGGCAATTAGAGAGGCCACACATCAATTATGTAGACTGTGGAAAG	788
Db	721	AAGAGTTTATATGTAAGGCAATTAGAGAGGCCACACATCAATTATGTAGACTGTGGAAAG	780
Qy	789	CTGAGATATGCTAATACGACATATTTGGATTTTGAATTTCTCAACATACCAACCTA	848
Db	781	CTGAGATATGCTAATACGACATATTTGGATTTTGAATTTCTCAACATACCAACCTA	840
Qy	849	ACTTTGATTTGTTGGAGATTGCACGTGAAACCTGCAAGCTTTGCCTAAGAAATGG	908
Db	841	ACTTTGATTTGTTGGAGATTGCACGTGAAACCTGCAAGCTTTGCCTAAGAAATGG	900
Qy	909	AAAAATTTGTCCAGAGTTCAAGGGAAAGATGTATTTGGCTTTCTGTGGGGTCACTGT	968
Db	901	AAAAATTTGTCCAGAGTTCAAGGGAAAGATGTATTTGGCTTTCTGTGGGGTCACTGT	960
Qy	969	TTCAAAATGTTAAGAAAGAAAGGCTATATTCATTTGCTTAGCCCTTGGCCAGATCCAC	1028
Db	961	TTCAAAATGTTAAGAAAGAAAGGCTATATTCATTTGCTTAGCCCTTGGCCAGATCCAC	1020
Qy	1029	AGAAAGTGTATGAGGATACAAAGGAAAAAACCATTCACATTAGAGGCCAATACGTGGG	1088
Db	1021	AGAAAGTGTATGAGGATACAAAGGAAAAAACCATTCACATTAGAGGCCAATACGTGGG	1080
Qy	1089	TGTTATGATTTGGATTCGCCAGATATCTTTGGTCACTCCCAAAACCAAGCTTTTATCA	1148
Db	1081	TGTTATGATTTGGATTCGCCAGATATCTTTGGTCACTCCCAAAACCAAGCTTTTATCA	1140
Qy	1149	CTCATGTGTGAATGAATGGATCTATGAGCTATTTACCATGGGGTCCCTATGTGGGAG	1208
Db	1141	CTCATGTGTGAATGAATGGATCTATGAGCTATTTACCATGGGGTCCCTATGTGGGAG	1200
Qy	1209	TTCCCATTTTGGTGATCAGCTTATATACATATAGTCCATGAAGGCCAAAGAGACACCTG	1268
Db	1201	TTCCCATTTTGGTGATCAGCTTATATACATATAGTCCATGAAGGCCAAAGAGACACCTG	1260
Qy	1269	TAGAAATTAACCTTCAAAACCTATGACAGCGAAGATTTTACTAGAGGCTTTGGAACAGCTA	1328
Db	1261	TAGAAATTAACCTTCAAAACCTATGACAGCGAAGATTTTACTAGAGGCTTTGGAACAGCTA	1320
Qy	1329	TTACCGATTCCTCTTATTAACAGAAATGCTATATGAGATTTTCAAGATTCACCATGATCAAC	1388

Db	1321	TTACCGATTTCCTCTTNTAAAGAAATGCTATGAGATTATCAAGAAATTCACCATGATCAAC	1380
Qy	1389	CGGTAAAGCCCCATAGATGAGCAGACTCTTGTGATGCGAATTTGTGTCATGCGCCCAAGAG	1448
Db	1381	CTGTAAAGCCCTAAATGAGAGAGTCTTGTGATGCGAATTTGTGTCATGCGCCCAAGAG	1440
Qy	1449	CCAGACACCTGCGATGAGTGCCTCCATGACCTTCACCTGGTTCCACACACTATCTATGATG	1508
Db	1441	CCAGACACCTGCGATGAGTGCCTCCATGACCTTCACCTGGTTCCACACACTATCTATGATG	1500
Qy	1509	TCATTGGTTCCTGCGACCTGTGAGCAACTGCTATATTTCTTGTTCACAAATGTTTTT	1568
Db	1501	TGATTGGTTCCTGCGACCTGTGAGCAACTGCTATATTTCTTGTTCACAAATGTTTTT	1560
Qy	1569	TATTTTCCTGTCAAAAATTTAAATACTAGAAAGATAGAAAAAGGGAAATATGATCTTTC	1628
Db	1561	TATTTTCCTGTCAAAAATTTAAATACTAGAAAGATAGAAAAAGGGAAATATGATCTTTC	1620
Qy	1629	CAAAATTCAGAAAGACCTGATGSGGGTAATCCCTGTTAATTCAGCCACATATGAAATTTGGTG	1688
Db	1621	CAAAATTCAGAAAGACCTGATGSGGGTAATCCCTGTTAATTCAGCCACATATGAAATTTGGTG	1680
Qy	1689	AAAACCTGCTATTTTCATATTAATTCCTGTTATTTATCTTGACATATAGCCTAGA	1748
Db	1681	AAAACCTGCTATTTTCATATTAATTCCTGTTATTTATCTTGACATATAGCCTAGA	1740
Qy	1749	ATTTCATGATCATGAGTGTGAGTATATCTAATTCCTTCGTTGCATTTTCTAGGTGAG	1808
Db	1741	ATTTCAGATCATGAGGTGTGAGTATATCTAATTCCTTCGTTGCATTTTCTAGGTGAG	1800
Qy	1809	CTTACCTCTCTTCTCCTCACTTTGACACAAGACATGAATACATCTAAATTTTCTATTT	1868
Db	1801	TTTACTCTCTTCTCCTCACTTTGACACAAGACATGAATACATCTAAATTTTCTATTT	1860
Qy	1869	CTGATATCACTGTTTTCATATACGTCATTACTTCTTAACCTTAAGAGATAGGCTGACCTG	1928
Db	1861	CTGATATCACTGTTTTCATATATGTCATTACTTCTTAATACCTTAAGAGATAGGCTGACATG	1920
Qy	1929	CAATATGCTGATCTCTGCTGTGTTTGACCAAAACAGATGATTAAGAAGTAAATAATGTAA	1988
Db	1921	CAATATGATTTATTCCTGCTGTGCTGAGCCCAAAACACATGATTAAGAAGTAAATAATGTAA	1980
Qy	1989	AATTCACAAAATTCATTAACCCACAAATCAATGAAGATTCATGACATTTAGCTGTT	2048
Db	1981	AATTCACAAAATTCATTAACCCACAAATCAATGAAGATTCATTAAGATTTAGCTGCT	2040
Qy	2049	ATGATAGCATAAAGATTTTCTTTTCAATTTAAATTAAGCCCTTCTACATATCCAGCAT	2108
Db	2041	ATGAGAAACATATAGATCTTCTTTTCAATTTAAATTAAGCCTTCTACATATCCAGCAT	2100
Qy	2109	TACTGATCTCAGACATGAATTTGCTAAATAATGACAGATAGGGCATTAACACAGAAATGTT	2168
Db	2101	CAGTATCTCAGAAAATTAATTTGCTAAATAATGAATGACATGGCATTAAGCTTAAAGAAATTT	2160
Qy	2169	TGCTATTTTCCACATTAACCTCATATGATCATAGCTTACATGCTTCCATCACTTAAC	2228
Db	2161	TGCTGTATTTCCATAGACTCATATGATGTCATAGGCTTAATTTCCGATCACTCAAC	2220
Qy	2229	TGACA-TTTTGTGTGTTCTTGATGATAAATGACAGTCTTATATTTATGTCCTCAATA	2287
Db	2221	CAATGCTTTTCTGTTCTTGATGATAAAGAGCCTTCTCATGATGTCGATCAATA	2280
Qy	2288	ATPAAAGAAACT-CAAAATTTTCTTACATAGAGAAATTCATATAGATTAATTCAGATTAAA	2346
Db	2281	ACAAAAGAAACTATTTTCTTCTCATATAGAGAAATTCATATAGATTAATTCAGATTAAA	2340
Qy	2347	CGATATATTTTGATATGATACCAATAGAAATATGATGTAATTTCTGATTTATATA	2406
Db	2341	CGATATTTTGTGATATGATACCAATATTTGAATATGAGTATATTTACTGAGTTATATA	2400
Qy	2407	AAATTTAATGATGATGACCTT-----GATTTAAATGCTATTTCTTT-AAAATGATGAA	2459

Db 2401 AA-TTTATTGGATGACCTTAAGACATTTATATGTTTATTCTTTAAATAATGATGAA 2459  
Oy 2460 TACTCATATTCCTATCTGATATATTAATTTACTGTAGAAAAATPAAGAGAT 2519  
Db 2460 TACTCATATTCCTATCTGATATATTAATTTACTGTAGAAAAATPAAGAGAT 2519  
Oy 2520 GCTTGTCTGAAAGTAAAA 2538  
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RESULT 2  
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; Sequence 521, Application US/10052586  
; Patent No. US20020127584A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Chen, Jian  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Pan, James  
; APPLICANT: Smith, Victoria  
; APPLICANT: Watanabe, Colin K.  
; APPLICANT: Wood, William I.  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE OF INVENTION: ACIDS ENCODING THE SAME  
; FILE REFERENCE: P3430R1C1  
; CURRENT APPLICATION NUMBER: US/10/052,586  
; PRIOR FILING DATE: 2002-01-15  
; PRIOR APPLICATION NUMBER: 60/059263  
; PRIOR FILING DATE: 1997-09-18  
; PRIOR APPLICATION NUMBER: 60/059266  
; PRIOR FILING DATE: 1997-09-18  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/063120  
; PRIOR FILING DATE: 1997-10-24  
; PRIOR APPLICATION NUMBER: 60/063121  
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; PRIOR APPLICATION NUMBER: 60/086392  
; PRIOR FILING DATE: 1998-05-22

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PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088811  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088824  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088825  
PRIOR FILING DATE: 1998-06-10  
PRIOR APPLICATION NUMBER: 60/088826  
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PRIOR APPLICATION NUMBER: 60/088861  
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PRIOR FILING DATE: 1998-06-11  
PRIOR APPLICATION NUMBER: 60/089090  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089105  
PRIOR FILING DATE: 1998-06-12  
PRIOR APPLICATION NUMBER: 60/089512  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089514  
PRIOR FILING DATE: 1998-06-16  
PRIOR APPLICATION NUMBER: 60/089538  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089598  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089653  
PRIOR FILING DATE: 1998-06-17  
PRIOR APPLICATION NUMBER: 60/089908

Query Match 84.5%; Score 2330; DB 12; Length 2974;  
Best Local Similarity 96.3%; Pred. No. 0;  
Matches 2441; Conservative 0; Mismatches 85; Indels 10; Gaps 5;

12 GATAGTGTGTGAGGAAGTCCATCATGAGGTGTGACAAAGTACGCTTTGGTATTCTGCG 71

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Db 1 GATAGTGTGTGAGGAAGTCCATCATGAGGTGTGACAAAGTACGCTTTGGTATTCTGCG 60  
OY 72 TCGTGCAGCTTCTCTGTGTGGCTGTGATCTGTGGGAAAGTCTGTGGCCCTGTG 131  
Db 61 TCGTGAGCTTCTGTGTGTGGCTGTGATCTGTGGGAAAGTCTGTGGCCCTGTG 120  
OY 132 ACATGAGCCATTGGCTTAATGTCAAGGCAATTCAGAAAGCTCATAGTGAAGGCCATG 191  
Db 121 ACATGAGCCATTGGCTTAATGTCAAGGCAATTCAGAAAGCTCATAGTGAAGGCCATG 180  
OY 192 AGGTACAGTATTGACTCCTCAAGGCTTGTAAATTTGACTACAGGAAGCTTCTGCAT 251  
Db 181 AGGTACAGTATTGACTCCTCAAGGCTTGTAAATTTGACTACAGGAAGCTTCTGCAT 240  
OY 252 TGAATTTGAGTGGTCCATATGCCACAGGACAGAAACAGAAAGAAATATTGTG 311  
Db 241 TGAATTTGAGTGGTCCATATGCCACAGGACAGAAAGAAAGAAATATTGTG 300  
OY 312 ACCTAGCTGTGAATGCTTCCAGGCTTATCAACCTGGCAATCAGTTAAATTTAATG 371  
Db 301 ACCTAGCTGTGAATGCTTCCAGGCTTATCAACCTGGCAATCAGTTAAATTTAATG 360  
OY 372 ATTTTGTGTTGAAATTAAGAGAACTTTAAATATGATGTGAGAGCTTATCTACAAATC 431  
Db 361 ATTTTGTGTTGAAATTAAGAGAACTTTAAATATGATGTGAGAGCTTATCTACAAATC 420  
OY 432 AGACGCTTATGAAGAAAGCTACAGAAACCACTAGATGTAATGCTTATAGACCTGTGA 491  
Db 421 AGACGCTTATGAAGAAAGCTACAGAAACCACTAGATGTAATGCTTATAGACCTGTGA 480  
OY 492 TTCCCTGTGAGAACCTGATGAGCTGAGTTCCTGCTGCTTCTTGTGCTACACTTAGA 551  
Db 481 TTCCCTGTGAGAACCTGATGAGCTGAGTTCCTGCTGCTTCTTGTGCTACACTTAGA 540  
OY 552 TTTCCTGTAGAGGCAATATGAGAGGCAAGGCTGTGGGAACTTCAGCTCCACTTCTATG 611  
Db 541 TTTCCTGTAGAGGCAATATGAGAGGCAAGGCTGTGGGAACTTCAGCTCCACTTCTATG 600  
OY 612 TACCTGTGCTATGACAGGCACTAACAGACAGAAATGCTTCTGGAAGATTTTGGGAAG 671  
Db 601 TACCTGTGCTATGACAGGCACTAACAGACAGAAATGCTTCTGGAAGATTTTGGGAAG 660  
OY 672 CAATGCTTTAGTTTGTCTTCCACTTCTGATTCAGGATTAAGCACTTATTTTGGGAAG 731  
Db 661 CAATGCTTTAGTTTGTCTTCCACTTCTGATTCAGGATTAAGCACTTATTTTGGGAAG 720  
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Db 721 AGTTTATAGAGGCAATTAAGAGGCCCACTACATTATGTGAGCTGTGGAAAGCTG 780  
OY 792 AGATATGGCTAATACGAACATATTGGCATTTTGAATTTCTCAACCATACCACTTAATC 851  
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OY 852 TTGAGTTTGTGAGAGATTTGACTGTAAACCTGCAAGCTTTCCTTAAGAAATGGAAA 911  
Db 841 TTGAGTTTGTGAGAGATTTGACTGTAAACCTGCAAGCTTTCCTTAAGAAATGGAAA 900  
OY 912 ATTTGTTCAGAGTTCAAGGGGAAGATGTATTTGTGTGTTTCTCTGTGGGTCTACTGTTTC 971  
Db 901 ATTTGTTCAGAGTTCAAGGGGAAGATGTATTTGTGTGTTTCTCTGTGGGTCTACTGTTTC 960  
OY 972 AAAATGTTACAGAGAAAGGCTAATATCATTTGCTGAGCCCTTGCCAGATGCCACAGA 1031  
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OY 1092 ATGATTTGATCCCGAAGATGATCTTCTTGGTCAATCCCAAAACCAAGCTTTTCACTC 1151  
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Oy 323 AATGCTCCAGGCTTATCAACCTGGCAATCAGTTATATAATGATTTTTTGT 382  
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 Db 318 AATGCTTCACAGGCTTATCAACCTGGCAATCAGTTATATAATGATTTTTTGT 377  
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 Db 978 GAAGAAAGGCTAATATCATTTGCTTCAAGCCCTTGCCACAGATCCACAGAGGTGTATGG 1037  
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 Db 1338 TATTAAGGAATGCTATGAGATTTATCAAGATTCACCATGATCAACCTGTAAAGCCCTTA 1397  
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Oy 1403 GATGAGCAGCTCTTCTGATTCAGATTTGTATGCGCCACAAAGAGCCAGACCTGCGA 1462  
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 Db 1758 AGGTGTGATATATCTATTTCTGTATTTAGCTATATAGCTGAAATTCATGATCATG 1817  
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 Db 1818 TCACCTTTGACACAAAGACATGATATACATTAATTTCCATTTGATATACCTGTT 1877  
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 Oy 1943 CTGCTGTGTCACAAACACATGATGATTAAGAAAGTAAAGATTAATTCACAAATTC 2002  
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 Db 1938 CTGCTGTGTCACAAACACATGATGATTAAGAAAGTAAAGATTAATTCACAAATTC 1997  
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 Oy 2003 AGTAAACACACAAATCAATGAAGCATTTATGATATGATTTGATATGATATAT 2062  
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 Db 1998 AGTAAACACACAAATCAATGAAGCATTTATGATATGATTTGATATGATATAT 2057  
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 Db 2178 ATACCTCATCTAGATGCTATAGCTTACATTTTGTCCATCTACATTAACGACATTA-TTTTTGT 2237  
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 Db 2298 AAATTTCTTCAATGAGAAATGCTCATTAAGATATTTCAAGTAAACAGATTA-TTTTGA 2357  
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 Oy 2360 GATTAAGTACCTTTGGAATATGATATGATTTGATTTGATTTAATTTAATTTATTTGAT 2419  
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 Oy 2473 TATCTATATATCAAAAAGTATATATTTACTGTAGAAAAATTAAGAGATGCTTTGTGAAA 2532  
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Db 2477 TATCTATATAACAAAGATATATTACTGTAGAAAATAAGAGATGCTGTTCTGAAA 2536
QY 2533 GTAAAA 2538
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Db 2537 GTAAGA 2542

RESULT 4
US-09-981-353-165
; Sequence 165, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Iasek, Amy W.
; APPLICANT: Jones, David A.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO: 165
; LENGTH: 1636
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 2434655CB1
US-09-981-353-165

Query Match 59.3%; Score 1636; DB 9; Length 1636;
Best Local Similarity 100.0%; Pred. No. 8.2e-313;
Matches 1636; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 GATCAGTGTGTGAGGAGACTGCCATCATAGAGTCTGACAAAGTCAGCTTGTGATTTCTGC 71
Db 1 GATCAGTGTGTGAGGAGACTGCCATCATAGAGTCTGACAAAGTCAGCTTGTGATTTCTGC 60
QY 72 TCCTGAGCTTCTGTGTGGCTGTGATTCGTGGGAAAGCCGTGGCCCTGTG 131
Db 61 TCCTGAGCTTCTGTGTGGCTGTGATTCGTGGGAAAGCCGTGGCCCTGTG 120
QY 132 ACATGAGCATTGGCTTAATGTCAAGCTATTCTAGAGAGCTCATAGTGAAGGCCATG 191
Db 121 ACATGAGCATTGGCTTAATGTCAAGCTATTCTAGAGAGCTCATAGTGAAGGCCATG 180
QY 192 AGGTAACTATTGACTACTCAAGCCTTCGTAATTGACTACAGAGACCTTCTGCAT 251
Db 181 AGGTAACTATTGACTACTCAAGCCTTCGTAATTGACTACAGAGACCTTCTGCAT 240
QY 252 TGAATTTGAGGAGTCCATATGCCACAGAGACAGAAAGAAATGAATATTTGTTG 311
Db 241 TGAATTTGAGGAGTCCATATGCCACAGAGACAGAAAGAAATGAATATTTGTTG 300
QY 312 ACCTAGCTCTGATGTCTTGCAGAGCTTATCAACCTGGCAATCAGTTATATAATTAATG 371
Db 301 ACCTAGCTCTGATGTCTTGCAGAGCTTATCAACCTGGCAATCAGTTATATAATTAATG 360
QY 372 ATTTTGTGTAATTAAGAGAACTTTAAAAATGATGTGTGAGAGCTTTATCTACATC 431
Db 361 ATTTTGTGTAATTAAGAGAACTTTAAAAATGATGTGTGAGAGCTTTATCTACATC 420
QY 432 AGACGCTTATGAAGAGCTACAGAGAAACCACTACATGTAATGCTTATAGACCTGTGA 491
Db 421 AGACGCTTATGAAGAGCTACAGAGAAACCACTACATGTAATGCTTATAGACCTGTGA 480
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QY 552 TTTCTGTAGAGAGCAATATGAGAGCAAGCTGTGGAAGAACTTCCAGCTTCCATATG 611
Db 541 TTTCTGTAGAGAGCAATATGAGAGCAAGCTGTGGAAGAACTTCCAGCTTCCATATG 600
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QY 612 TACCTGTGCTATGACAGAGCTAACAGACAGATGACCTTCTGGAAGAGTAAAAATT 671
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QY 672 CAATGCTTTCAGTTTGTTCACCTTCTGTGATTCAGAGATTACGACTATCATTTTGGGAG 731
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QY 732 ACTTTTATATGTAAGCATTAGAGAGCCCACTACATTTATGTGAGACTGTGGAAAAAGCTG 791
Db 721 ACTTTTATATGTAAGCATTAGAGAGCCCACTACATTTATGTGAGACTGTGGAAAAAGCTG 780
QY 792 AAGTATGCTATATAGAACATATTGGGATTTGGAATTTCCCTAACCATACCAACTACT 851
Db 781 AAGTATGCTATATAGAACATATTGGGATTTGGAATTTCCCTAACCATACCAACTACT 840
QY 852 TTGAGTTGTGTGAGAGATTGCACTGTAAACCTGCCAAAGCTTGGCTAAGAAATGAGAA 911
Db 841 TTGAGTTGTGTGAGAGATTGCACTGTAAACCTGCCAAAGCTTGGCTAAGAAATGAGAA 900
QY 912 ATTTGTCCAGAGTTCCAGGGAGATGTAATGTGGTGTTCCTGTGGGCTCAGTGTTC 971
Db 901 ATTTGTCCAGAGTTCCAGGGAGATGTAATGTGGTGTTCCTGTGGGCTCAGTGTTC 960
QY 972 AAAATGTTACAGAAAAAGGCTAATATCATTCATTCAGTCCCTGCCAGATCCACAGA 1031
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QY 1032 AGGTGTTATGAGAGTACAAAGGAAAAAAACCATCCACATTAGAGCCCAATACCTGCGTGT 1091
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QY 1092 ATGATTTGATACCCCAAGATGATCTTGTGTCATCCAAAAACAAGCTTTTATCAGTC 1151
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QY 1152 ATGGTGAATGAATGGGATCTATGAAGCTATTACATGGGGTCCCTATGGTGGAGTTTC 1211
Db 1141 ATGGTGAATGAATGGGATCTATGAAGCTATTACATGGGGTCCCTATGGTGGAGTTTC 1200
QY 1212 CCATATTTGGTATCAGCTTGTATTAACATAGCTACATGAAAGCCAAAGAGCAGCTGTAG 1271
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QY 1272 AAATTAACCTTCAAACTATGACAAAGCAAGATTACTGAGGCTTTGAGAACAGTCATTA 1331
Db 1261 AAATTAACCTTCAAACTATGACAAAGCAAGATTACTGAGGCTTTGAGAACAGTCATTA 1320
QY 1332 CCGATTTCCCTTATTAAGGAATGCTATGAGATTTATCAAGAAATTCACAGATTCACCTG 1391
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Db 1381 TAAAGCCCTTAGATGAGCAGTCTTCTGGATCGAGTTTGTCAAGGCCACAAAGAGGCA 1440
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QY 1632 ATTCAGAAAGACCTG 1647
Db 1621 ATTCAGAAAGACCTG 1636
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RESULT 5
US-09-962-678-3
; Sequence 3, Application US/09962678
; Patent No. US20020155499A1
; GENERAL INFORMATION:
; APPLICANT: Leibniz, Kevin R.
; TITLE OF INVENTION: 32624, A NOVEL HUMAN UDP-GLUCURONYL
; FILE OF INVENTION: AND UDP-GLUCOSYL TRANSFERASE AND USES THEREOF
; FILE REFERENCE: 10448-094001
; CURRENT APPLICATION NUMBER: US/09/962,678
; CURRENT FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/235,044
; PRIOR FILING DATE: 2000-09-25
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1584
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-962-678-3

Query Match          57.4%; Score 1582.4; DB 9; Length 1584;
Best Local Similarity 99.9%; Pred. No. 2.0e-302;
Matches 1583; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 38 ATGAGGTCTGACAAAGTCAGCTTTGGTATTCTGCTCTGACGCTCTTCTGTGTGGCTGT 97
DB 1 ATGAGGTCTGACAAAGTCAGCTTTGGTATTCTGCTCTGACGCTCTTCTGTGTGGCTGT 60
QY 98 GGAATTCGTGGGAAAGTCCTGTGTGGCCCTGTGACATGACACCAATGGCTTAATGTCAAG 157
DB 61 GGAATTCGTGGGAAAGTCCTGTGTGGCCCTGTGACATGACACCAATGGCTTAATGTCAAG 120
QY 158 GTCAATTCAGAGAGCTCATAGTGAAGGCCATGAGTAAAGTATGACTCACTCAAG 217
DB 121 GTCAATTCAGAGAGCTCATAGTGAAGGCCATGAGTAAAGTATGACTCACTCAAG 180
QY 218 CCTTCGTAAATGACTACAGAGCCCTGTGCTGATGAATTTGAGGTGTCCATATGCA 277
DB 181 CCTTCGTAAATGACTACAGAGCCCTGTGCTGATGAATTTGAGGTGTCCATATGCA 240
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DB 241 CAGGACAGAACAGAAATGAATATTTGTAACCTGCTGATGATGCTTCCAGGC 300
QY 338 TTATCAACCTGGCAATCAGTTAATAATTAATGATTTTGTGGAATAAGAGCACT 397
DB 301 TTATCAACCTGGCAATCAGTTAATAATTAATGATTTTGTGGAATAAGAGCACT 360
QY 398 TTAATAATGATGTGTGAGAGCTTTATCTACAAATCAGAGCTTAAGAGAGTACAGAA 457
DB 361 TTAATAATGATGTGTGAGAGCTTTATCTACAAATCAGAGCTTAAGAGAGTACAGAA 420
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DB 421 ACCAATCAGATGAATAGCTTTATAGACCCGTGATTCCTGTGAGAACCTGATGCTGAG 480
QY 518 TTGCTTCAGTCCCTTTTGTGCTACACTTGAATTTCTGTAGAGGCAATATGAGGCA 577
DB 481 TTGCTTCAGTCCCTTTTGTGCTACACTTGAATTTCTGTAGAGGCAATATGAGGCA 540
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DB 541 AGCTGTGGGAAACTTCAGCTCCACTTCTATGATGCTGCTATGACAGGACTAACA 600
QY 638 GACAGAAATGACCTTTCTGAGAAAGTAAAAATTAATCAATGCTTTCAAGTTTGTCCACTTC 697
DB 601 GACAGAAATGACCTTTCTGAGAAAGTAAAAATTAATCAATGCTTTCAAGTTTGTCCACTTC 660
QY 698 TGAATTCAGATTCAGACTATCATTTTGGAGAAAGTTTAAATAGTAGGCAATGAGAG 757
DB 661 TGAATTCAGATTCAGACTATCATTTTGGAGAAAGTTTAAATAGTAGGCAATGAGAG 720

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DB 841 AAACCTGCCAAAGCTTTGCTTAAGAAATTTGTCGAGAGTTCCAGGGAAGAT 900
QY 938 GGTATTGTGCTGTTTCTGCGGCTGACCTGTTTCAAAATGTTACGAGAAAGGCTAAT 997
DB 901 GGTATTGTGCTGTTTCTGCGGCTGACCTGTTTCAAAATGTTACGAGAAAGGCTAAT 960
QY 998 ATCATTCCTTCAGCCCTTGGCCAGATCCACAGAGGTGTATGAGGTACAAAGGAAA 1057
DB 961 ATCATTCCTTCAGCCCTTGGCCAGATCCACAGAGGTGTATGAGGTACAAAGGAAA 1020
QY 1058 AAACATTCACATTTAGAGACCAATCTGGCTGTATGATGATGCCAGATGATCTT 1117
DB 1021 AAACATTCACATTTAGAGACCAATCTGGCTGTATGATGATGCCAGATGATCTT 1080
QY 1118 CTGGTCATCCCAAAACCAAGCTTTTATCACTCATGATGATGAATGAGATCTATGAA 1177
DB 1081 CTGGTCATCCCAAAACCAAGCTTTTATCACTCATGATGATGAATGAGATCTATGAA 1140
QY 1178 GCTATTTACCATGGGCTCCCTATGATGAGAGTCCCATTTGTTGATGATGATGATAC 1237
DB 1141 GCTATTTACCATGGGCTCCCTATGATGAGAGTCCCATTTGTTGATGATGATGATAC 1200
QY 1238 ATAGCTCACATGAAGGCCAAAGAGCAGCTGTAATAAATCAACTCAAACTATGACAGC 1297
DB 1201 ATAGCTCACATGAAGGCCAAAGAGCAGCTGTAATAAATCAACTCAAACTATGACAGC 1260
QY 1298 GAAGATTTACTGAGGCTTTGAGAAACGATCATACGATTTCCCTTAATAAGAGATGCT 1357
DB 1261 GAAGATTTACTGAGGCTTTGAGAAACGATCATACGATTTCCCTTAATAAGAGATGCT 1320
QY 1358 ATGAGATTAACAGAAATTCACATGATCAACCTGTAAAGCCCTTAGATGAGAGCTCTTC 1417
DB 1321 ATGAGATTAACAGAAATTCACATGATCAACCTGTAAAGCCCTTAGATGAGAGCTCTTC 1380
QY 1418 TGAATTCAGATTTGTATGCGCCAAAGAGCAGCAGCTGATGATGATGATGATGATG 1477
DB 1381 TGAATTCAGATTTGTATGCGCCAAAGAGCAGCAGCTGATGATGATGATGATGATG 1440
QY 1478 CTCACCTGCTTCAGACACTACTATATGATGATGATGATGATGATGATGATGATG 1537
DB 1441 CTCACCTGCTTCAGACACTACTATATGATGATGATGATGATGATGATGATGATG 1500
QY 1538 ACTGCTATATCTGTTCCACAAATGTTTTTATTTTCTGCTCAAAATTTAATAAACT 1597
DB 1501 ACTGCTATATCTGTTCCACAAATGTTTTTATTTTCTGCTCAAAATTTAATAAACT 1560
QY 1598 AGAAGATAGAAAGAGGGAATAG 1621
DB 1561 AGAAGATAGAAAGAGGGAATAG 1584

RESULT 6
US-09-981-353-83
; Sequence 83, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Jones, David A.
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11

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; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 83
; LENGTH: 1889
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 255002.4
; NAME/KEY: unsure
; LOCATION: 232, 243-244
; OTHER INFORMATION: a, t, c, g, or other
; US-09-981-353-83
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Query Match          29.4% Score 810.4; DB 9: Length 1889;
Best Local Similarity 71.8%; Pred. No. 1.8e-150;
Matches 1106; Conservative 0; Mismatches 419; Indels 16; Gaps 3;
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QY 105 GTGGGAAGTCTGTGTGTCCTGTGACATGAGCCATTGGCTTAATGTCAGAGTCATTC 164
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DB 151 GTGGGAATGTTTGTGATTTGGCCAAATGGAAGTAGTCATTGGCTAAATGTTAAGATATTA 210
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 165 TAGAAGACTCATAGTAGAGGCCATGAGGTAACTAGTATTGACTCACTCAAGCCCTTGGT 224
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 211 TAGATGAGTCTATAAAGAGGAGGATGATGATGATGATGATGATGATGATGATGATGAT 270
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 225 TATATGACATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 284
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 271 TCATTCACACCAACCTTAAACCACTCTGACATTTGAATATATTAAGAGGAGGAGGAGGAG 330
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 285 GAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 344
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 331 AAGAAGAGATAGAGAGAGAGATTAAGAGACTTCCTTTGACATGCGTGGAAGAGAGAGAG 390
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 345 CCGGCAATCAGTTTAAATTAATGATTTTGTGTAATAGAGAGAGAGAGAGAGAGAGAGAG 404
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 391 CTCCTTCAACCATTTGGAATTTCTATCAGAGATGAGGAGGAGGAGGAGGAGGAGGAGGAG 450
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 405 T-----GATGTGAGAGGCTTATCTACAAATCAGAGGCTTATGAGAGAGAGCTAC 452
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 451 TGTGTCTAGAGAGATCTGTGATGGGCTTAAACCAACAGAGGAGGAGGAGGAGGAGGAGGAG 510
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 453 AGGAAGCAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 512
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 511 AGAAGAGCAAGTTGAAAGCTGCTGATGATGATGATGATGATGATGATGATGATGATGAT 570
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 513 CTGAGTGTCTGAGTCCCTTTTGTGCTACACTTAAGAAATTCGTGAGAGGAGGAGGAGGAG 572
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 571 CTTTAAACCTTGAATTTCCATTTATGATCTCTGAGGTTTCTCCAGGCTCAACAGTGG 630
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 573 AGGAGAGCTGTGGAGAACTTCCAGCTCCACTTCCATGATCTGCTGCTATGACAGGAG 632
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 631 AAAAGCAGCTGTGGAGAGTACATACCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 690
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QY 633 TAACAGACAGATGAGCTTCTGGAAGAGATAAATAATTCATGCTTCAAGTTTGTCTCC 692
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 691 TCACGAGCAAAATGCTTCTACAGACAGATAAAGAAAT---TCATCTCTACACCTCTAC 747
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QY 693 ACTTGTGATTAAGATTAAGACTATCTATTTTGGAGAGGATTTATTAAGGATTAAG 752
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 748 AGGACTACATGTTTGAACCTCTTGGAAATTCATGAGATTCATCTATTAAGAACTTTGAG 807
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QY 753 GAAGGCCCATCATATATGAGAGCTGTGGAGAAAGCTGAGATATGCTATATACAGAACT 812
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DB 808 GAAGACCCCTGAGTATGAGACTATGAGAGAGGAGAGAGGAGGAGGAGGAGGAGGAGGAG 867
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QY 813 ATTTGGATTTTGAATTTCTCAACCACTATACCACTTAATCTTGAATTTGTGAGAGATTC 872
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DB 868 ATTTGGATTTTGAATTTCTCTGCTCATACTTACCTATTTTGTGATTTGTGAGAGATTC 927
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QY 873 ACTGTAACCTGCAAGCTTTGCTTGAAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 932
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 928 ACTGCAAACTGCAAACTTTACCTAGAGAAATGAGAAATTTATCCAGAGCTCAGGTA 987
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QY 933 AAGATGATATGAGGATTTCTGTGGGGTCACTGTTCAAAATGTTACAGAGAAAG 992
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DB 988 AAAATGCTTTGTGTGTTCTGTGGATGATCAATGATCAAAACCTTACAGAGAAAG 1047
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 993 CTAAATCATGCTTCAGCCCTTGGCCAGATCCACAGAGGAGTGTATGAGATCAAG 1052
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1048 CCAATTTATTTGCTAGGCCCTTGGCCAGATTCACAGAGAGGTTTATGAGATACAAAG 1107
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1053 GAAAAAACCATTCATTTAGAGGCCATATGCTGCTATGATTTGATTTGATCCAGAGATG 1112
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1108 GAAAGAAACCAACCATTTAGAGAAACATATCTAGCTCTTTGATTTGAGATACCCAGAAATG 1167
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1113 ATCTTCTGATCCCAAAACCAAAAGCTTTATATCATCATGCTGGAATGAATGGATCT 1172
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1168 ATCTTTTGGAGATCCCAAAACCAAAAGCTTTATATCATCATGCTGGAATGAATGGATCT 1227
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1173 ATGAAGCTATTTACATGAGGCTCCATGATGAGGAGATCCATATTTGATGATCAAGCTTG 1232
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1228 AGGAAGCTATTTACACAGGAGTCCATGATGAGGATCCATGTTTGTGATCAAGCTTG 1287
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1233 ATACATGCTCATCATGAAGGCCAAAGAGAGAGCTGTAGAAATTAACCTTCAAAACTA-TG 1291
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1288 ATACATGCTCATCATGAAGGCCAAAGAGAGAGCTGTAGAAATTAACCTTCAAAACTA-TG 1347
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QY 1292 ACAAGGAGATTTTCTGAGGCTTTGAGACAGATCATACGATTTCTCTATTAAGAG 1351
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1348 ACAAGGATGATTTGCTTATGAGGCTTTGAGACAGATCATTAATTAAGCTTTCTATTAAGAG 1407
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1352 AATGCTATGATATTAACAGAAATTCACATGATCAACCTGTAAAGCCCTTATGAGAG 1411
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1408 AATGCTATGATATTAACAGAAATTCACATGATCAACCTGTAAAGCCCTTATGAGAG 1467
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QY 1412 GTCTTGTGATGAGTTGTATGAGGCCCAAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAG 1471
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DB 1468 GTCTTGTGATGAGTTGTATGAGGCCCAAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1527
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QY 1472 CATGACCTTACCGGTTCCAGACATCTATGATGATGATGATGATGATGATGATGATGATGAT 1531
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DB 1528 CATGACCTTACCGGTTCCAGACATCTTGTGATGATGATGATGATGATGATGATGATGATGAT 1587
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1532 GTGGCAACTGCTATATTTCTTGTACAAAATGTTTATTTTCTGTCGCAAAATTTTAT 1591
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1588 GTGACAAAGGCTATATTTTGTGATACAAATGTTTGTCTCTGTCGCAAAATTTTGT 1647
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
QY 1592 AAAACTGAAAGATGAAAGAGGAGATGATCTTCCAAA 1632
    ||||| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
DB 1648 AAGATGAGAAAGAGAAAAAGAGAAATGATGTCAGAGAAAAA 1688
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RESULT 7
US-09-880-107-3292
; Sequence 3292, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 3292
; LENGTH: 2090
; TYPE: DNA
; ORGANISM: Homo sapiens
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FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 008854
US-09-880-107-3292

Query Match      28.3%; Score 782; DB 10; Length 2090;
Best Local Similarity 68.5%; Pred. No. 7e-145;
Matches 1114; Conservative 0; Mismatches 500; Indels 12; Gaps 2;

35 ATATGAGCTGTCAGACAGCTTGGTATTTCTGCTCTCTGAGCTCTTGTG--GTT 91
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16 ACCAGAGTGTCTGGAATGAGCTGAGCTTCTGTGTGATGACGTGCAAGTGTACTT 75
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
92 GCGTGTGATTTCTGTGGAAAGTCTGCTGCTGCTGATGACATGAGCCATTGGCTTA 151
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
76 AGCTCTGGAAGCTGTGGAAGGTCTAGTGTGGCCACAAATACAGCCATTGGATAAT 135
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
152 GTCAAGCTCATCTAGAAAGCTCATAGTGAAGGCCATGAGTAACTGATGACTAC 211
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
136 ATGAAGCAATCTGGAAGAGCTTGTTCAGAGGGGCTATGAGTGTGATGACATCT 195
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
212 TCAAGGCTTCTGTAATTTGACTACAGAGAGCTTCTGCAATGAAATTTGAGGTGCT 271
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
196 TCGGCTTCTACTCTGTCAATGCGAGTAATTCATCTGCTATTAATTAAGATTATCT 255
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
272 ATGCC-----ACAGACAGAAACAGAAATAATATTTGTTGACCTGACTCTG 322
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
256 ACATCTTTAACTAAATAGATTGGAAGATTCTCTTGAAATTTCTCGATAGATGATA 315
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
323 AATGCTTCCAGAGCTTTATCAACTGGCAATCACTTATTAATTAATGATTTTGT 382
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
316 TATGCTGTTCAAAAATATACATTTTGGTCATATTTTTCACATTAACAAGATTGTG 375
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
383 GAATATAGAGAACTTTAAAATATGATGTGAGAGCTTTATCTACATACAGAGCTATG 442
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
376 GAATTTATGACTACAGTACAGAGCTCTGTAAAGATGACAGTTTGAATTAATAACTTATG 435
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
443 AAGAAGCTACAGAGAAACCACTACAGATTAATGCTTATAGACCCGTGATCCCTGGA 502
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
436 ATGAACACTACAGAGTCAAAAGTTTATGATCTTGTGAGAGATGAGCCCTTAATCCCTGTG 495
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
503 GACTGATGCTGAGTGTGCTGACGCTCCCTTTTGTGCTACACATTAGAATTTCTGTAGA 562
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
496 GAGTACTGCTGAGACTATTTAACTACCTTCTGTACAGCTTCGATCTCTGTTGGC 555
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
563 GGCATATGAGAGCAAGCTGTGGAAAGCTCCAGCTCCACTTCTATGACTGTGCT 622
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
556 TACACATTTTGAAGAGATGAGTGTGAGAGATTCTGTTCCCTCTCTATGACTGTGTT 615
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
623 ATGACAGACTAACAGACAGATGACCTTTCGAAAGAGTAATAATCAATGCTTTCA 682
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
616 ATGTGCAATTAAGTATCAATGATTTTTCATGAGAGATTAATAATATGATCATATG 675
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
683 GTTTTGTCCACTCTGTGATTCAGATTCAGACTATCATTTTGGAGAGATTTATAGT 742
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
676 CTTTATTTGACTTTGTTTAAATTTAAATTTAAATTTGAAATGAGTGTATAGT 735
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
743 AAGGCAATTAGAGGCCCTACATATGAGAGTGTGGAAGAACTGAGATATGCTTA 802
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
736 GAAGTTCTAGGAAGACCCTACATATTTGAGACAATGGGGAAGCTGAATGTGGCTC 795
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
803 ATACGAACATATTTGATTTGATTTGCTCAACATATACCACTTACCTTGAAGTTGTT 862
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
796 ATTCGAACATATTTGATTTGATTTGCTCGCCCATTTTTCACCAATTTGATTTGTT 855
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
863 GAGGATTTGACTGTAACCTGCAAGGCTTTCCTAAGAAATGGAATTTTGTCCAG 922
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
856 GAGGAGCTTCACTGTAACAGCAACCCCTGCTTAAGAAATGGAAGTTTGTGCGAG 915
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
923 AGTTCAAGGGAGATGATTTGTGTGTTTCTCTGAGGCTCACTGTTTCAAAATGTTACA 982
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916 AGCTCTGAGAAATATGATTTGTGTGTTTCTCTGAGGTCATGATCACTAATGATGCA 975
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
983 GAAGAAAAGGCTAATATCATTTGCTTCAAGCCCTTGCCCAAGTCCCAAGAAAGGTATAG 1042

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Db 976 GAGAAAGTGGCAACATGATTCATCAGCCCTTGCCGAGATCCCAAGAAAGTCTATGG 1035
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1043 AGGTACAAAGGAAAAAACCATCCATGATAGAGCCATTAAGCTGATGATGATA 1102
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1036 AGATTTGATGGCAAGAACCAATATAGTTCATTAAGTCTGATGATGATGATG 1095
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1103 CCCCAGAAATGATCTTGTGTCATCCCAAAACCAAGCTTTATCATCATGTTGGAATG 1162
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1096 CCCCAGAAATGATCTTGTGTCATCCCAAAACCAAGCTTTATCATCATGTTGGAATG 1155
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1163 AATGGATATGAAAGCTATTTTACATGAGGCTTCTATGATGATGATGATGATGAT 1222
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1156 AATGGATATGAGGCGATCTTACATGAGGATCCCTATGATGATGATGATGATGAT 1215
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1223 GATCAGCTGATTAACATGATGATGATGATGATGATGATGATGATGATGATGATG 1282
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1216 GATCAACATGATTAACATGATGATGATGATGATGATGATGATGATGATGATGATG 1275
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1283 AAACTATGACAAAGCAAGATTTTACTGAGGCTTGGAGAACGATCATACGATTCCT 1342
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1276 AGACCATGTCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1335
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1343 TATTAAGAGATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1402
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1336 TATTAAGAGATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1395
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1403 GATCAGAGATGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1462
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1396 GATCAGAGATGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1455
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1463 TCAGCTGCCATGACCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1522
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1456 GTGCAAGCTGACCAAGCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1515
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1523 CTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1582
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1516 CTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1575
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1583 AAATTTAATTAACCTAGAAAGATGAAAGAGAGATGATGATGATGATGATGATGATG 1642
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1576 AAGCTTCCCAAAACAGAAAGAAAGAAAGAAAGATGATGATGATGATGATGATGATG 1635
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1643 ACCTGA 1648
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
1636 GAATGA 1641
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

RESULT 8
US-09-880-107-3286
; Sequence 3286, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107
; PRIOR FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 3286
; LENGTH: 2123
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 006641

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QY	62	GTATTTTCGCCCCGAGCGCTTCCTCTG---GTTGGCTGTGGATTTCTGTGGGAAAGTCCCTG	118
Db	1	GTCTTTCTGCTGTGATACAGCGTCAGTGTGTACTCTTAACTGTGGAAAGCTGTGGAAAGGTGGCTA	60
QY	119	GTTGGCCCTGTGTGCATGACCACTTATGGCTTAATGTCAAGCATTTCTGTGAAGAGTCTCAT	178
Db	61	GTGTGGGCCACAGAAATACACCACTTGGATTAATATACAAACAATCTCTGGAAAGCTTGT	120
QY	179	GTGAGAGGCCATGAGGTACAGTATTGACTCACTCAAGACCTTGTTAAATTGACTACAGG	238
Db	121	CAGAGGGGCTATGAGGTGACTGTGTGACATCTTCGGCTTCACTCTGTCAATGCCAGT	180
QY	239	AAGCCTTTCGATTTGAAATTTGAGGTGGTCCATATGCC-----ACAGACAGCAACA	289
Db	181	AAATCATCTGCTATTAAATATTAGAATTATCTCACTCTTAACTTAATAATATTATTTGAA	240
QY	290	GAAAGAAATGAAATATTGTTGTGACCTAGCTCTGAAATGTTGCCAGGCTTATCAACTCGG	349
Db	241	GATTCCTCTCGAAAAATTCGATAGTGGATTAATATGATGTGTTCAAAAAATATCAATTTGG	300
QY	350	CATTCAGTTATTAAATTTAAATGATTTTTTTTGTGAATTAAGAGAACTTTAAAAATGATG	409
Db	301	TCAATTTTTTCACAAATTCACAGAAATGTGTGGGCAATATTATGACTACAGTAAACAAGCTC	360
QY	410	TGTGAGAGCTTTATCTCAATTCAGAGCGCTATGAAGAACTACAGAAACCAACAGACAT	469
Db	361	TGTAAAGATGCAGTTTGGATTAAGAAACCTTATGATGAACTCAAGAGTCAGATTTGAT	420
QY	470	GTAATGCTATTAGACCCCTGTGATTCCTGTGAGACCTGANTGGCTGATTTGCTTCAGTC	529
Db	421	GTCATTCCTGTGAGATCTCTGTTTTCCCTGTGGGAGCTCTGACAGGCTACTTAACTA	480
QY	530	CCTTTGTGTCACACTTAATTTCTGTAGAGAGCAATATGAGACGAACGTGTGGGAA	589
Db	481	CCCTTTGTCTACAGGTTCCGATCTTCGTTGCTGTACACTGTGAGAGAGATGTGGAGGA	540
QY	590	CTTCCAGCTCCACTTTCCCTATGTACCTGTGGCTATGACAGAGCAACAGCAATGACC	649
Db	541	TTTCTGTTCCTCCCTCTCTATGTACCGTGTGTTATGTCAGAATTAATGTATCAAAATGAT	600
QY	650	TTTGTGAAAGATAAAAAATTAATGATCTTTCACTTTGTTGTTGCTTCGATTCAGAT	709
Db	601	TTTCATGTGAGAGATAAAAAATATGATATACATATGCCTTTATTTGACCTTTTGGTTCAAAAT	660
QY	710	TACAGCATATCTTTTGGGAGAGTTTATAGAAAGCATTTGGAAGGCCCACTCATTA	769
Db	661	TATGATCTGAAAGATGTGGACCGAGTTTATAGGAAAGTCTGTGGAAGGCCCACTCATTA	720
QY	770	TGTGAGACTGTGGAAAAAGCTGAGATATGGCTAAATCGAACAATATTTGGATTTTGAATTT	829
Db	721	TTTGAGACATATGGGGAAGAACTGAAATGTGGCTCATTCGAACCTATTTGGATTTTGAATTT	780
QY	830	CTTCAACCATACCACTTAATCTTTGAGTTTGTGGAGATTCGACTGTAAACCTGCCAA	889
Db	781	CTTCCGCCCATTTCTACCAAAATGTGTATTTTGTGGAGGACTTCACTGTAAACCAACGAAAA	840
QY	890	GCTTTGGCTTAAGGAAATGAAATTTTGTTCACAGATTCAGGGGAAGATGTATTTGGTG	949
Db	841	CCCCGTCTTAAGGAATTTGGAAGATTTGTGTGACAGCTCTGTGGAAAAATGTATTTGTGGTG	900
QY	950	TTTTTCTGTGGGGTCACTGTTTCAAAATGTTACAGAGAAAAAGCTTAATATCAATTCCTTCA	1009
Db	901	TTTTTCTGTGGGGTGTGAATGATCAATACATGTGTGAGAAAGTGTCCAAATGATTTGCATCA	960
QY	1010	GCCCTTGTCCAGATTCACAGAAAGTGTATGTAGAGTACAAAGAAAAAAACATCCACAA	1069
Db	961	GCCCTTGTCCAGATTCACAGAAAGTGTGTATGTAGAGATTTTGAATGTGGCAAGAAAGCAAAATCT	1020



Db 68 TAGCTGGGAATTGTGAAAGAGTGCTGCTGTGGCAGCAGAAATACAGCCATTGGATGAA 127  
 QY 151 TGTCAAGGTCATCTGTGAAGAGCTCATAGTGAAGCCATGAGTACAGTATTGACTCA 210  
 Db 128 TATAAAGACATCTGGATGAGCTTATTCAGAGAGGTCAAGTACGTCTGAGCARTC 187  
 QY 211 CTCGAAGCCTTGTGTAATGACTACAGGAAGCCTTGCTGCAATGAAATTTAGGTGGCCA 270  
 Db 188 TTGAGCTTCATCTTTTGTGATCCCAACATCATCCCTCTTAAATTTGAATTTATTC 247  
 QY 271 TATGCCACAGGACAGACAGAAAGAAATGAAATTTGTTGACCTAGCTCTGA -----A 324  
 Db 248 CACATCTTTAACTAAACAGAGTTGGAGAAATTCATCATCAACAGATTAAAGAGATGTC 307  
 QY 325 TGTCTTGCCAGGCTTATCAACCTGCGCATCAGTTATATAATTTAAATGATTTTGTGTA 384  
 Db 308 AGACCTTCCAAAAGATACATTTTGGTATATTTTTCACAAAGTACAGAAATTCATGCAAT 367  
 QY 385 AATTAAGAGAACTTTAAATATGATGTGAGAGCTTTATCTACAAATCAGAGCTTATGAA 444  
 Db 368 ATTGGTGCATTAAGTAAAGATTCTGTAAAGATGTAGTTCAATTAAGAAATTTATGAA 427  
 QY 445 GAAGCTACAGAAACCACTACAGATGTAATGCTTATAGACCTGTGATTCCTGTGAGA 504  
 Db 428 AAAAGTACAAGATCAAGATTTGACGTCATTTTTCAGATGCTATTTTCCCTGTAGTGA 487  
 QY 505 CCTGATGGCTGAGTGTCTGCACTCCCTTTTGTGCTCACCTTGAATTTCTGTAGAGG 564  
 Db 488 GCTGCTGGCTGAGCTATTTAAACATACCTTTGTTGACAGCTCAGCTCTCTCGGCTA 547  
 QY 565 CAAATGAGAGCGAAGCTGTGGGAAACCTTCCAGCTTCCATGATACCTGGCTAT 624  
 Db 548 CACTTTTGAAGACATAGTGGAGAGATTATTTTCCCTCTCTTCTACGATCTGTGTAT 607  
 QY 625 GACAGAGCTACAGACAGATGACCTTCTGGAAGAGTAAATTAATTCATGCTTCAGT 684  
 Db 608 GTGAGATTAACATGATCAATGACTTTTCAATGAGAGGTTAAATATGATGTATGCT 667  
 QY 685 TTGTTTCCATCTGTGATTCAGATTAACATGCTATCTTTTGGGAAGTATTATAGTAA 744  
 Db 668 TTACTTGTGCTTTGGTGGAAATTTTGAACAGAAAGTGGAGTACAGTTTATAGTGA 727  
 QY 745 GGCATTGAGAGAGCCACTATCATTTATGTAGACTGTGGAAAGTGAATGAGTAT 804  
 Db 728 AGTTCTAGGAAGACCCACTACGTTATCTGAGACATGGGAAAGCTGACGTATGCTTAT 787  
 QY 805 ACGAATATTTGGATTTTGAATTTCTCAACCATACCACTTACCTTGTGCTGTG 864  
 Db 788 TCGAACTCTCGGAATTTTCAATTTCTCATCCACTTACCAATGTTGATTTGTGG 847  
 QY 865 AGGATTGCATCTGAACCTGCGCAAGCTTGTCTTAAGAAATGGAATTTTGTCCAGAG 924  
 Db 848 AGGACTCCACTGGAACCTGCGCAAGCCCTTAAGAAATGGAAGTCTGTGTACAGAG 907  
 QY 925 TTTCAGGGAAGATGATTTGCTGTTTCTGTGGGGTCACTTTTCAAAATGTTACAG 984  
 Db 908 CTCTGGAAGAAATGCTGTGTGTGTGTCTGTGGGCTCAATGCTATAGTACATGACAGA 967  
 QY 985 AGAAAAGCTAATATATCTGCTTCAAGCCCTTGCCAGATCCCAAGAGGTGTTATGAG 1044  
 Db 968 AGAAAGGCGCAAGTATATGATCAGCCCTGGGCCAGATCCCAAAAGTTGTGGAG 1027  
 QY 1045 GTACAAAGAAAAAACCATCCCATTTAGAGGCAATACTCGGCTATATGATTTGATACC 1104  
 Db 1028 ATTTGATGGGAATTAACCGAGATCTTAGGTCTCAATACCTCGGCTATTAAGGATACC 1087  
 QY 1105 CCAGATGATCTTCTGTGATCTCCAAAACCAAGCTTTTATACATCATGATGGATGAA 1164  
 Db 1088 CCAGATGATCTTCTAGGTGATCTCCAAAAGCAGAGCTTTTATATCAATGATGGAGCCA 1147  
 QY 1165 TGGGATCTATGAAGCTATTTACCATGGGGTCCCTATGTTGGAGTTCCCATATTTGGTGA 1224  
 Db 1148 TGGCATCTACGAGCAATCTACCATGGGATCCCTATGTTGGGATTTCCATTTGTTGCCGA 1207

QY 1225 TCAGCTTGATACATAGCTCACAATGAAAGCCAAAGACGAGCTGTAGAAATTAACCTCAA 1284  
 Db 1208 TCACCTGATTAACATGCTCCACATGGAAGCCAGGAGGACGCTGTATAGATGACTTCAA 1267  
 QY 1285 AACTATGACAAGGAGATTTACTGAGGCTTGTGAGAACGTCATTACGATTCCTCTTA 1344  
 Db 1268 CACATGTGAGTACGAGACTTGTGATGATGATGATGAAAGAGTATTAATTAATGATCTTCA 1327  
 QY 1345 TAAAGAAATGCTATGATGATTTATCAAGAAATTCACATGATCAACCTGTAAAGCCCTAGA 1404  
 Db 1328 TAAAGAAATGATATGATTAATTAATCAAGAAATTCACATGATCAACGATGAAGCCCTGGA 1387  
 QY 1405 TCGAGAGCTTGTGATGATGAGTTGCTCATGCGCCCAAAAGAGCCAGCAGCTGGGATC 1464  
 Db 1388 TCGAGAGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1447  
 QY 1465 AGCTGCCATGACCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1524  
 Db 1448 TCGAGCCCGACGACCTGACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1507  
 QY 1525 GACCTGTGTGCACTGCTATATTTCTGTCACAAATGCTTTTATTTTCTGTCACAAA 1584  
 Db 1508 GGTCTGTGTGCACTGCTATATTTCTGTCACAAATGCTTTTATTTTCTGTCACAAA 1567  
 QY 1585 ATTTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1628  
 Db 1568 GTTGTGCTAGAAAGCAAGAAAGGAAATGATTTGATTAATTAATTAATTAATTAAT 1611

RESULT 11  
 US-09-981-353-193  
 ; Sequence 193, Application US/09981353  
 ; Patent No. US20020160382A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Lasek, Amy W.  
 ; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
 ; FILE REFERENCE: PA-0038 US  
 ; CURRENT APPLICATION NUMBER: US/09/981,353  
 ; CURRENT FILING DATE: 2001-10-11  
 ; NUMBER OF SEQ ID NOS: 194  
 ; SOFTWARE: PERL Program  
 ; SEQ ID NO: 193  
 ; LENGTH: 1714  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: misc.feature  
 ; OTHER INFORMATION: Incyte ID No. US20020160382A1 088078CB1  
 US-09-981-353-193

Query Match 27.3%; Score 753.2; DB 9; Length 1714;  
 Best Local Similarity 67.8%; Pred. No. 38-139;  
 Matches 1087; Conservative 0; Mismatches 508; Indels 9; Gaps 2;

QY 34 CATCATGAGGTGTCAGACGCTTGTGATTTCTGCTCTGCACT---CTTCTGTGT 90  
 Db 25 CACACAGAGTGTGTAATGACCTTCACTTAATTTTGAATACACTGAGCTTTGCTT 84  
 QY 91 TGGCTGTGATTTCTGTGGAAGTCTGTGTGTGCGCCCTGTGACATAGCATTGGCTTA 150  
 Db 85 TAGCTGTGGAATTTGTGAAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 144  
 QY 151 TGTCAAGTCAATCTTGAAGAGCTCATATGAGAGCCATAGAGTAACTATTTGACTCA 210  
 Db 145 TATAAAGACATCTGTGATGAGCTTATTCAGAGAGTCTCATGAGTACGTACTGCAATC 204  
 QY 211 CTCGAAGCCTTGTGATTAATGACTACAGAAAGCTTCTGCAATGAAATTTGAGTGTGCA 270  
 Db 205 TTTCAGCTTCATTTCTTTGATCCCAACATCATCCGCTCTTAAATTTGAATTTATCC 264  
 QY 271 TATGCCACAGACAGACAGAAAGAAATTAATTTGTTGACCTAGTCTGA-----A 324





QY	383	GAATTAAGAGAACTTTAAAAATGATGTGTGAGAGCTTTATCTACAATTCAGACGCTTATG	442
Db	406	GAATATTCTGTACTTAATTAATAAAGCTCTGGAAGATGACAGTTTGTAAACAAGAACTTATATG	465
QY	443	AAGAAAGTACAGGAAACCACTACGATGTAATCTTATAGACCCGTGTATCCCTGTGGA	502
Db	466	AGAAAACTCACAGCTCAAAATTTGATGTCTTGTGGCAGATGCCGTTATACCTCTGTGT	525
QY	503	GACCTGATGGCTAGTGTCTTGTGCAGTCCCTTTTGTGCTCCACACTTAGAATTTCTGTAGA	562
Db	526	GAGCTGTGGGTGAACACTTAACATACCCCTTTCTGTACAGTCTCCGCTCTCTGTGTGC	585
QY	563	GGCAATATTGAGCGAAGAGCTGTGGGAACTTCCAGCTCCACTTTCCTATGTACCTGTGCT	622
Db	586	TACACACTTACGAAGAATGGTGGAGATTTCTGTCCCTCTCCATGTACCTGTGT	645
QY	623	ATGACGAGCTACACAGACAGATGAGACCTTCTGTGGAAAGGTAAAAATTCATAGCTTTCA	682
Db	646	ATGTCAAGAAATTAAGTGTATCAATATGATTTTCATGAGAGATTAATAAATGTATATATG	705
QY	683	GTTTTGTTCACACTTCTGTGATTCAGATTAATGCACTATCATTTTGTGGAAAGCTTATATGT	742
Db	706	CTTATTTTGTGACTTGTGGTTTCAAGCATATGATCTGAAABAAGATGGGACCAAGTTTATATGT	765
QY	743	AAGCAATTAGGAAGGCCCACTACATTATGTGAGACTGTGGAAAGCTGAGATATGCGTA	802
Db	766	GAATTTCTAGGAAGACCCCACTACATTATTGTGAGACAAATGGGAAAGCTGAAATGTGCGTC	825
QY	803	ATTAGAACATATTGGGATTTTGAATTTCCTCAAACCTAACCACTACACTTGTGAGTTTGT	862
Db	826	ATTGAAACCTATTGGGATTTTGAATTTCCCTCGCCCACTTTCACAAATGTGATTTGT	885
QY	863	GGAGAGTTGCACTGTAAACCTGCGCAAAAGCTTTTGCCTAAGAAATGGAATTTTTCAG	922
Db	886	GGAGAGCTTCACTGTAAACCAAGCCAAACCTTGTCCTAAGAAATGGAAGATTTGTGAG	945
QY	923	AGTTTCAGGGGAAGTGTATTGTGTGTTTCTGTGGGTCACGTTCCTCAAAATGTTACA	982
Db	946	AGCTCTGGAGAAATGTATTGTGTGTTTCTGTGGGTCGATGATGATACATGTCA	1005
QY	983	GAATAAAAGCTATATATCATTTGCTTCAAGCCCTTGGCCCAATCCCAAGAAAGTGTATAGG	1042
Db	1006	GAATAAAAGTGCACATGATGAT--CAGCCCTGGCCCAATCCCAAAAGGTGTATAGG	1063
QY	1043	AGGTACAAAGAAAAAACCCATCCATTAAGAGAGCCAAATACCTGGCTATGATGTAGTA	1102
Db	1064	AGATTTGATGGCAAGAACCAATTAATGTTTGAATCTCAATCTGCACTGTACAAGTGTTA	1123
QY	1103	CCCCGAATGATCTTGTGCTATCCCAAAACCAAGCTTTTATCAATCATGTGTGAATG	1162
Db	1124	CCCCGATGATACCTTGTGTGCTATCCCAAAACCAAGCTTTTATATCATGTGTGAAC	1183
QY	1163	AATGGGATCTATAGATATTATTTACCATGGGGTCCCATGTGTGGAGTTCCCATATTGTGT	1222
Db	1184	AATGGCACTGATGGGAATCTACATGATGGATGCCATGTGTGGGATTCCTTGTGTGCG	1243
QY	1223	GATGAGTTGATTAACATAGCTCAATGAAGAGCCAAAGAGAGCTGTGAATAATTAATTC	1282
Db	1244	GATCAACATGATTAACATGTCTCAATGAAGAACCAAGGAGGACCCCTCATGTGTGACATC	1303
QY	1283	AAAACTATGCAAGCAAGAAATTACTGAGGGCTTTGAGAACAGTCAATTAACGATTCCTCT	1342
Db	1304	AGGACACTTCATAGTATGAGATTTGTTCTCATGCAATGAATGAATGATTAATGACCCATC	1363
QY	1343	TATTAAGAAGAAATGCTATGAGATTTATCAAGAAATTTACCATGATCAACCTGTAAAGCCCTA	1402
Db	1364	TATTAAGAAGAAATATCATGAATTAATCAAAATTCATCAATGATCAACCGGTGAAGCCCTG	1423
QY	1403	GATGAGCACTCTTGTGATGCGATTTGTTCATGCGGCACAAGAGAGCCAAAGACTGTGGA	1462
Db	1424	GATGAGCACTGCTTCTGTGATGTAGTTGTTCATGCGGCATTAAGAGAGCCAAAGACTTGTGG	1483
QY	1463	TCACCTCCCATGACCTCACCTGGTTCCAGCACTACTCATGATGATGTAGGTGGTTCTGT	1522

Accession	Sequence	Position
Db	1484 GTCCAGCCACCAACCTCACCTGGATCCAGTACCACTTTGGATGTATAGCATTTCCG	1543
Oy	1523 CTGACCTGTGTGGGAATGCTATATCTGTTCACAAAATGTTTATTTTCCCTGTAA	1582
Db	1544 CTGGCCGCGCGGCAACATATGATTTTATGATCCACAAATGTTGCCCTGTTTGTTCGGA	1603
Oy	1583 AAATTTATATAAATACTAGAAAGATAGAAAAGAGGATATATCTTTCCAAATTCMAAGAAAG	1642
Db	1604 AAGCTTCCCAAAACAGGAAAGAAAGAAAGGATTACTTATATCAAAAGCCGAACTG	1663
Oy	1643 ACCTGA 1648	
Db	1664 GAATGA 1669	

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RESULT 13
US-09-981-353-189
; Sequence 189, Application US/09981353
; Patent No. US20020160382A1
; GENERAL INFORMATION:
; APPLICANT: Lasek, Amy W.
; TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER
; FILE REFERENCE: PA-0038 US
; CURRENT APPLICATION NUMBER: US/09/981,353
; CURRENT FILING DATE: 2001-10-11
; NUMBER OF SEQ ID NOS: 194
; SOFTWARE: PERL Program
; SEQ ID NO 189
; LENGTH: 1712
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020160382A1 480489.5
US-09-981-353-189

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Query Match	27.0%;	Score 743.8;	DB 9;	Length 1712;
Best Local Similarity	67.8%;	Pred. No. 2.1e-137;		
Matches 1088; Conservative	0;	Mismatches 507;	Indels 10;	Gaps 3;

OY	34	CATCATAGAGGTCGTGACCAAGTCAGCTTTGGTAATTTCTGCTCCTGCAGCTCTTCTGT	---	GT	90
Db	10	CACCAAGATGACCTCGAAATAGGACTTCAGTCTCTCTGCTGATATCTCAGTTTACTT			69
OY	91	TGGCGTGTGATTTCTGTGGGAAGTCGCGTGTGGCCCGTGGACATGAGCCATTGGCTTAA			150
Db	70	TAGCTCTGGAGTTGTGGAAAGTGTCTGGTGTGGGGCCGCAGAAATACAGCCATTGGATGAA			129
OY	151	TGTCAAGCTCATTTGTAGAAGAGCTCATAGTAGAGGGCCATGAGTTAACTAGTTAGCTCA			210
Db	130	TATGAAAGACATCTCGAAGAGAGCTTTGTCACAGAGTCATAGGTGACTGACAGCGCATC			189
OY	211	CTCAAGGCTTCGTTAATTTGACTACAGSAGACCCTTCGTCATGTAATTTAGAGGTGCCA			270
Db	190	TTTCACTTCCTCACTCTTTTATCCCAATGATGACATCCCTTAAATTTGAAGTTATACC			249
OY	271	TATGCCACAGACAGACAGACAGAAATGAAATATTTGTGACCTAGCTCGA-----A			320
Db	250	TACATCTTTAAGTAAAGTGAATTTGGAGAAATATCATCATGCAACAGTTAAGAGATGTC			309
OY	335	TGCTCTGCCAGGCTTAACCTGCGCAATCATGTTATATAATTAATGATATTTTGTGTA			384
Db	310	AGACATTCGAAAGAATAGTCTTTTGGTTATATTTTTCACAGAACMAAATAATCCGTGGGA			369
OY	385	AATAAGAGGACCTTAAAAATGATGTGGAGAGCTTTATATCATACTACAGAGAGCTTATGAA			444
Db	370	ATTATATATACATATTTAGAAACTTCTGTGAAGAATGTGATTTCAATATAGAAATTTATGAA			429
OY	445	GAAAGTACAGGAAACCAACTACGATGTAAATGCTTATAGACCCCTGTGATTCCTGTGGAGA			504
Db	430	AAAACCTCAAAAGTCAGATTTGAGCATGTTTTGGTCAGATGCTCTTTTCCCTGGTGA			489





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Db 544 ATTTGAAAGCAGAGGAGGATTTATTTCCCTCTCTACGTACGTGTATGTC 603
Qy 628 AGGACTAACAGACAGATACCTTTCTGGAAGAGTAAAAATTCATGCTTACGTTT 687
Db 604 AAATTAAGTCAATCAATCTTTCATGAGAGGATAAAAATATGCTATGCTTTA 663
Qy 688 GTTCCACTCTGTGATTCAGGATTCAGATATCATTTTGTGGAAGATTTTATGTAAGC 747
Db 664 TTTTGACTTTTGTTCCTCAATATTTATATGAAGAAGTGGATCACTTTTACGTAACT 723
Qy 748 ATTAGGAAGCCCATACATATATGAGACTGTGGAAGAAAGTGAATGAGTAAATAGC 807
Db 724 TTTAGGAAGCCCATACATATATGAGACTGTGGAAGAAAGTGAATGAGTAAATAGC 783
Qy 808 AACATATTTGGATTTTGAATTTCTCAACCATACCACTTAACCTTGAGTTGTTGGAG 867
Db 784 AAACCTCTGGAATTTTAAATTTCTCATCATCTTCCATCAAAATGTTGATTTGTGAG 843
Qy 868 ATTGCATCTTAAACCTGCCAAGCTTTGCTAAGAAATGGAATTTTGTCCAGAGTTC 927
Db 844 ACTCCACTCAAACTGCCAAGCCCTACCTAAGAAATGAGAGATTTGTACAGAGCTC 903
Qy 928 AAGGGAAGATGATTTGTTGTTGTTCTCTGAGGTCATGTTTCAAAATGTTACAGAGA 987
Db 904 TGGAGAAATGATGTTGTTGTTGTTCTCTGAGGTCATGTTGTCAGTACATACAGAGA 963
Qy 988 AAGGCTAATATCATTTGCTTCCAGCCCTTCCAGATCCACAGAGGTTTATGAGGTA 1047
Db 964 AAGGCTAATATCATTTGCTTCCAGCCCTTCCAGATCCACAGAGGTTTATGAGGTA 1023
Qy 1048 CAAAGGAAAAAACCTCAATGAGGCAATCTGCTGATGATGATGATGATGATGATG 1107
Db 1024 TGAATGGAATTAACAGATGCTTACGTCTCATATCTGATGATGATGATGATGATG 1083
Qy 1108 GAATGATCTTCTTGTGCTCCCAAAACCAAGCTTTTATCAGTACGATGATGATGATG 1167
Db 1084 GAATGATCTTCTTGTGCTCCCAAAACCAAGCTTTTATCAGTACGATGATGATGATG 1143
Qy 1168 GATCTATGAGCTATTTACCATGAGGCTCTATGATGAGGATTTCCCAATTTGGTATCA 1227
Db 1144 CATCTATGAGCAATCTACCATGAGGCTCTATGATGAGGATTTCCCAATTTGGTATCA 1203
Qy 1228 GCTTGAATACATAGCTCAGATGAGGCAAGGAGCAGCTGATGATGATGATGATGATG 1287
Db 1204 ACTGATATATTTGCTCAGATGAGGCAAGGAGCAGCTGATGATGATGATGATGATG 1263
Qy 1288 TATGACAAAGCAATTTTACAGAGGCTTTGAGAACAGTATGATGATGATGATGATG 1347
Db 1264 AATGTCAGATACAGACCTGCTGATGACACTGAAAGCATTAATTAATGATCTTCAATATA 1323
Qy 1348 AGAGATGCTATGAGATATATCAAGAAATTCACATGATCACTGATGATGATGATGATG 1407
Db 1324 AGAGATATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1383
Qy 1408 AACAGCTCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1467
Db 1384 AACAGCTCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1443
Qy 1468 TGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1527
Db 1444 AACCCCAACACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1503
Qy 1528 CTGTGTGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1587
Db 1504 TTGTGTGCACTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1563
Qy 1588 TATATAAAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1628
Db 1564 TCTTGAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1604
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RESULT 15

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US-09-917-800A-1403
; Sequence 1403, Application US/09917800A
; Patent No. US20020119462A1
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Castle, Arthur
; APPLICANT: Elashoff, Michael
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Molecular Toxicology Modeling
; FILE REFERENCE: 44921-5038-US
; CURRENT APPLICATION NUMBER: US/09/917,800A
; PRIORITY FILING DATE: 2001-07-31
; PRIORITY FILING DATE: US 60/222,040
; PRIORITY FILING DATE: 2000-07-31
; PRIORITY FILING DATE: US 60/222,880
; PRIORITY FILING DATE: 2000-11-02
; PRIORITY FILING DATE: US 60/290,029
; PRIORITY FILING DATE: 2001-05-11
; PRIORITY FILING DATE: US 60/290,645
; PRIORITY FILING DATE: 2001-05-15
; PRIORITY FILING DATE: US 60/292,336
; PRIORITY FILING DATE: 2001-05-22
; PRIORITY FILING DATE: US 60/295,798
; PRIORITY FILING DATE: 2001-06-06
; PRIORITY FILING DATE: US 60/297,457
; PRIORITY FILING DATE: 2001-06-13
; PRIORITY FILING DATE: US 60/298,884
; PRIORITY FILING DATE: 2001-06-19
; PRIORITY FILING DATE: US 60/303,459
; PRIORITY FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 1740
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1403
; LENGTH: 1961
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020119462A1 M13506
US-09-917-800A-1403

Query Match 25.1%; Score 693.4; DB 10; Length 1961;
Best Local Similarity 65.8%; Pred. No. 1.8e-127;
Matches 1044; Conservative 0; Mismatches 531; Indels 12; Gaps 2;

Qy 37 CATGAGGTTGATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 93
Db 22 CAAGATGTTATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 81
Qy 94 CTGTGATTTGTGGAAGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 153
Db 82 ACCTGAGGCTGTGGAAGAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 141
Qy 154 CAAGGCTATTCAGAGAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 213
Db 142 AAAGATTAATTCAGAGAGGATGATGATGATGATGATGATGATGATGATGATGATGATG 201
Qy 214 AAAGCTTCTGATTAATTCAGAGAGGATGATGATGATGATGATGATGATGATGATGATG 273
Db 202 GCGTTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 261
Qy 274 GCCACAGACAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 324
Db 262 ACCTTTGAATTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 321
Qy 325 TGTCTTGCAGGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 384
Db 322 TGAATTTGAACACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 381
Qy 385 AATAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 444
Db 382 ATATTCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 441
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